Sl. No.	Description	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
	BCSR Item 4.30, Page No.15								
	Basic Rate	440.00							
	AW 8%	35.2							
	TotalRate	475.20							
	Ground floor								
			1	21.30	6.40		136.32		
			1	16.10	6.40		103.04		
			1	3.55	4.30		15.27		
		Sqm					254.63	475.20	120,997.80
	Basic Rate	440.00							
		25.00							
		465.00							
	AW 8%	37.2							
	TotalRate	502.20							
	First floor								
			1	21.30	6.40		136.32		
			1	16.10	6.40		103.04		
			1	3.55	4.30		15.27		
		Sqm					254.63	502.20	127,872.68
11	Providing and removing centering, shuttering, strutting, proping etc. and removal of form **work for Stairs (excluding landing) except spiral staircase** including cost of all materials, labour complete as per specification.								
	BCSR Item No 4.38, Page No.16								
	Basic Rate	520.00							
	AW 8%	41.6							
	TotalRate	561.60							
	Ground floor								
			2	1.20	3.90		9.36		
			3	1.20	1.50		5.40		
			22	1.20	0.15		3.96		
		Sqm.					18.72	561.60	10,513.15
	First floor								
	BCSR Item No 4.38, Page No.16								
	Basic Rate	520.00							
		25.00							
		545.00							
	AW 8%	43.6							
	TotalRate	588.60							
			2	1.20	3.90		9.36		
			3	1.20	1.50		5.40		
			22	1.20	0.15		3.96		
		Sqm.					18.72	588.60	11,018.59
12	Providing and fabricating Mild steel / High Yield Stength cold twisted Deformed steel bars conforming to IS:1786-1961 (Tor steel) including straightening, cutting, bending, hooking, lapping and / or welding wherever required, placing in position, tieing with binding wire of approved quality and guage including the cost of binding wire and anchoring to the adjoining members wherever necessary including all laps and wastages, cost of conveyance of high yield stength cold twisted deformed bars and binding wire etc. complete as per design, specification and directions of the Engineer-in-charge of the work including cost & conveyance of all materials & other incidental charges, cost of labour for all items of work, HOM of machinery, lead & lift, loading & unloading etc. complete. (laps, hooks and wastages								
	BCSR Item No 4.46 & 4.47, Page No.18								
	Ground floor								
	Basic Rate	70966.00							
	AW 8%	5677.28							
	TotalRate	76643.28							
	Footings and pedestals	Tonne					1.27		
	Coloumns						1.56		
	Plinth Beams						1.90		
	Roof Beams						1.90		
	Roof Slab, Staircase and others						4.31		
	First Floor								
	Coloumns						1.01		
	Roof Beams						1.90		
	Roof Slab, Staircase and others						4.77		
							18.61	76,643.28	1,425,964.01

Sl. No.	Description	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
13	Providing and constructing granite or basalt **Size Stone Masonry,** in Foundation & Plinth with CM 1:6 (1 Cement : 6 Coarse sand), stones hammer dressed in courses not less than 20cms. high using through bond stones at 200cm apart in each course including cost and conveyance of all materials and other incidental charges, curing etc. complete and all as per specifications and directions of the Engineer-in-charge of the work.								
	BCSR Item No 5.6, Page No. 23								
	Basic Rate	*4596.00*							
	AW 8%	*367.68*							
	TotalRate	*4963.68*							
	Ground Floor								
	For Compound		1	39.20	0.45	0.60	10.58		
			2	21.00	0.75	0.60	18.90		
			2	7.00	0.75	0.60	6.30		
		Cum					**35.78**	**4963.68**	**177,620.33**
14	KSRB 5-14: Providing and constructing load bearing wall with solid concrete blocks having block density not less than 1800kg/m3 havinga minimum average compressive strength of 4.00 N/mm2 confirming to IS 2185 (Part 1):2005 and constructed with CM 1:4, as per IS 2572:2005 including cost of all materials labour charges, scaffolding, curing, hire charges of machineries etc., complete as per specifications. - do - with solid concrete blocks of size 400x200x200mm								
	BCSR Item No 5.261, Page No.27								
a	**Ground floor**								
	Basic Rate	*962.00*							
	AW 8%	*76.96*							
	TotalRate	*1038.96*							
			1	86.10	2.75		236.78		
	Deductions		1	32.00	1.00		32.00		
			5	1.2	2.1		-12.60		
			16	1.2	1.2		-23.04		
	For Compound		1	0.60	0.45		-0.27		
			2	21.00		1.20	50.40		
			2	7.00		1.20	16.80		
		Cum							
b	**First Floor**						**300.07**	**1038.96**	**311,755.53**
	Basic Rate	*962.00*							
		35.00							
		997.00							
	AW 8%	*79.76*							
	TotalRate	*1076.76*							
		Cum							
c	**Terrace Floor**						**300.07**	**1076.76**	**323,097.99**
	Basic Rate	*962.00*							
		70.00							
		1032.00							
	AW 8%	*82.56*							
	TotalRate	*1114.56*							
			1	86.10	1.20		103.32		
		Cum					**103.32**	**1114.56**	**115,156.34**
15	KSRB 5-15: Providing and **constructing non load bearing wall** with solid concrete blocks of size 400x100x200mm having a block density not less than 1800kg/m3 having a minimum average compressive strength of 4.00 N/mm2 confirming to IS 2185 (Part 1):2005 and constructed with CM 1:4, as per IS 2572:2005 including cost of all materials, labour charges, scaffolding, curing, hire charges of machineries etc., complete as per specifications.								
	BCSR Item No 5.28, Page No .27								
	Ground Floor								
	Basic Rate	*811.00*							
	AW 8%	*64.88*							
	TotalRate	*875.88*							
			1	18.50		2.75	50.88		
	Deductions		8	1.20		2.10	20.16		
			8	0.75		2.10	-12.60		
			2	1.20		0.45	-1.08		
	First Floor	Sqm					**57.36**	**875.88**	**50,236.10**
	Basic Rate	*811.00*							

Sl. No.	Description	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
		35.00							
		846.00							
	AW 8%	67.68							
	TotalRate	913.68							
		Sqm					57.36	913.68	52,404.12
16	KSRB 15-3.14/15-7: Providing 12mm thick plain plastering in single coat to internal ceiling & RC surfaces in cement mortar 1:4 (1 cement : 4 fine sand) including providing & removing necessary scaffolding, rounding of corners wherever required, smooth rendering with lime, curing etc. including cost of all materials, formwork, labour charges, HOM of Machineries, loading, unloading ,with all lead and lifts etc., compelte & as per specification and as directed by Engineer								
	BCSR Item No 15.22 & 15.33, Page No.113 & 114								
a	Ground Floor								
	Basic Rate	225.00							
	AW 8%	18.00							
	TotalRate	243.00							
	Ceiling portion								
			1	21.00	5.50		115.50		
	Columns		1	15.80	5.50		86.90		
	Beams		16	1.36	3.00		65.28		
			4	21.00	0.45		37.80		
			18	5.50	0.45		44.55		
			2	15.80	0.45		14.22		
		Sqm					382.46	243.00	92,938.39
b	First Floor								
	Basic Rate	225.00							
		6.00							
		231.00							
	AW 8%	18.48							
	TotalRate	249.48							
		Sqm					382.46	249.48	95,416.74
c	Second Floor								
	Basic Rate	225.00							
		12.00							
		237.00							
	AW 8%	18.96							
	TotalRate	255.96							
	Ceiling portion								
			1	5.00	5.00		25.00		
		Sqm					25.00	255.96	6,399.00
17	KSRB 15-3.5/15-7: Providing 15mm thick plain plastering in single coat to internal masonry surfaces, in cement mortar 1:4 (1 cement : 4 fine sand) including providing & removing necessary scaffolding, rounding of corners wherever required, smooth rendering with lime, curing etc.including cost of all materials, formwork, labour charges, HOM of Machineries, loading, unloading ,with all lead and lifts etc., compelte & as per specification and as directed								
	BCSR Item No 15.13 & 15.33, Page No.112 & 114								
a	Ground floor								
	Basic Rate	221.00							
		32.00							
		253.00							
	AW 8%	20.24							
	TotalRate	273.24							
			1	166.40		3.25	540.80		
			1	35.0		1	35.00		
			2	5.5		3.25	35.75		
			2	4.0		3.25	26.00		
	Deductions		2	4.0		2.1	16.80		
			5	1.2		2.1	-18.90		
			16	1.2		1.2	-11.52		
			12	0.60		0.45	-1.62		
			8	3.00		2.10	-25.20		
			2	4.00		1.50	-6.00		
		Sqm					608.84	273.24	166,360.34
b	First Floor								
	Basic Rate	221.00							
		32.00							

Sl. No.	Description	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
		12.00							
		265.00							
	AW 8%	21.20							
	TotalRate	286.20							
		Sqm					608.84	286.20	174,250.9
18	KSRB 15-3.5/15-4.7: Providing 15mm thick plain plastering in single coat to external masonry surfaces, in cement mortar 1:4 (1 cement : 4 fine sand) including providing & mixing water proofing compound of approved quality and make as admixture to cement mortar as per manufacturer's specifications, providing & removing necessary scaffolding, rounding of corners wherever required, sponge finishing, curing etc. including cost of all materials, formwork, labour charges, HOM of Machineries, loading, unloading ,with all lead and lifts etc., compelte & as per specification and as directed by Engineer.								
	BCSR Item No 15.13 & 15.29, Page No.112 & 113								
	Ground floor								
	Basic Rate	221.00							
		9.00							
		230.00							
	AW 8%	18.40							
	TotalRate	248.40							
			1	51.80		3.00	155.40		
	Deductions		1	35.00		1.00	35.00		
			10	1.2		1.2	-14.40		
	For Compound		10	0.60		0.45	-2.70		
			4	21.00		1.30	109.20		
			4	7.00		1.30	36.40		
		Sqm							
	First Floor						325.28	248.40	80,799.06
	Basic Rate	221.00							
		9.00							
		12.00							
		242.00							
	AW 8%	19.36							
	TotalRate	261.36							
		Sqm					325.28	261.36	85,014.66
19	KSRB 15-5.1: Providing 15mm thick rough plastering in single coat to internal / external surfaces, in cement mortar 1:4 (1 cement : 4 fine sand) including finishing rough to receive tiling work, providing & removing necessary scaffolding, curing etc. including cost of all materials, formwork, labour charges, HOM of Machineries, loading, unloading ,with all lead and lifts etc., compelte & as per specification and as directed by Engineer. for Ground floor								
	BCSR Item No 15.30, Page No.113								
	Ground Floor								
	Basic Rate	205.00							
	AW 8%	16.40							
	TotalRate	221.40							
			8	3.00		2.10	50.40		
			2	4.00		1.50	12.00		
		Sqm							
	First Floor						62.40	221.40	13,815.36
	Ground Floor								
	Basic Rate	205.00							
		6.00							
		211.00							
	AW 8%	16.88							
	TotalRate	227.88							
		Sqm					62.40	227.88	14,219.71
20	Providing applying two coats of wall putty to inside plastered walls and ceiling using white cement putty. Scrapping and levelling the surface using steel blade and preparing the surface even and smooth by using different grade sand papers, including cost of all materials, cost of labour and scaffolding etc., complete as per the specification. KSRB 15-15.1 : Providing and applying painting in two coats with plastic emulsion paint of approved brand on wall surface to give an even approved shade after thoroughly brushing the surface, free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour, complete as per specifications.. with primer Internal Masonry wall surfaces								
	BCSR Item No 15.106 & 15.49.2, Page No.116								

Sl. No.	Description	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
a	Internal Ceiling								
	Basic Rate	78.00							
		90.00							
		168.00							
	AW 8%	13.44							
	TotalRate	181.44							
	Ground floor	Sqm.					382.46		
	First floor						382.46		
	Second floor						25.00		
	Internal Masonry wall surfaces								
	Ground floor						608.84		
	First floor						608.84		
							2007.61	181.44	364,261.05
21	Providing textured paint of approved quality, colour and shade to wall surface after cleaning and rubbing the wall surface with wire brush of medium size emery stone to remove all the loosely adhering particles, the surface is then cleaned with water and ensured that it is in line and level. The textured material is then mixed with 40-50% of clean water until a homogeneous thick slurry is formed, the slurry is left for 5-10 min, to react completely with ingredients. The textured finish prepared as above is then applied to the wall surface with suitable roller/spray gun/putty/ blade/ trowel to get the desired finish. The finished surface shall be applied with two coats of exterior paint of approved shade. The rate includes providing and removing scaffolding, all lead and lift and all other incidental charges etc.,								
	BCSR Item No 15.105, Page No.128								
	Basic Rate	439.00							
	AW 8%	35.12							
	TotalRate	474.12							
	Ground floor	Sqm.					325.28	474.12	154,220.81
	Basic Rate	439.00							
		4.00							
		443.00							
	AW 8%	35.44							
	TotalRate	478.44							
	First floor	Sqm.					325.28	478.44	155,626.01
22	Applying red lead ready mix priming coat over new steel or other metal surface including preparing the surface after throughly cleaning oil, grease, dirt and other foreign matter, and scoured with wire brushes, fine steel wool, sand papers including cost of materials, labour, complete as per specifications. KSRB 15-18.2 : Providing and applying enamel metal paint two coats (excluding priming coat) over new steel or other metal surface brushing to give an even shade after cleaning oil, grease, dirt and other foreign matter, including cost of materials, labour, complete as per specifications.								
	BCSR Item No 15.73 & 15.74, Page No.120								
	Basic Rate	41.00							
		95.00							
		136.00							
	AW 8%	10.88							
	TotalRate	146.88							
	Ground floor	Sqm.					27.36	146.88	4,018.64
	Basic Rate	41.00							
		95.00							
		8.00							
		144.00							
	AW 8%	11.52							
	TotalRate	155.52							
	First floor	Sqm.					27.36	155.52	4,255.03
23	Providing and laying **flooring with Vitrified tiles** of size 600mm x 600mm and of 10mm minimum thick of first quality and of approved make & sample, conforming to IS specifications, laid on a bed of 12mm thick cement mortar 1:3 (1 cement : 3 fine sand) with a thin coat of cement slurry on a prepared bed / floor slabs including finishing the joints with matching coloured cement, oxalic acid wash, waxing, curing etc. with all lead and lift etc. complete as per the directions of the Engineer-in-charge including cost & conveyance of all materials, cost of labour for all items of work, equipment and all other incidental charges for								
	Refer BCSR item 14.45, Page No.107								
	Ground floor								

Sl. No.	Description	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
	Basic Rate	976.00							
	AW 8%	78.08							
	Rooms TotalRate	1054.08							
			6	5.00	4.00		120.00		
	First Floor	Sqm					120.00	1054.08	126,489.6[illegible]
	Basic Rate	976.00							
		2.00							
		978.00							
	AW 8%	78.24							
	TotalRate	1056.24							
		Sqm					120.00	1056.24	126,748.80
24	Providing and fixing **dadoing with Glazed tiles** of approved size, make & sample and of 6mm minimum thick of first quality, conforming to IS specifications, set in cement mortar 1:3 (1 cement : 3 fine sand) 10mm thick with a thin coat of cement slurry on the rough plastered surfaces including finishing the joints with matching coloured cement, oxalic acid wash, waxing, curing etc. with all lead and lift etc. complete as per the directions of the Engineer-in-charge including cost & conveyance of all materials, cost of labour for all items of work, equipment and all other incidental charges for the successful completion of the work.								
	BCSR Item No 14.41.1, Page No.106								
	Ground Floor								
	Basic Rate	1271.00							
	AW 8%	101.68							
	TotalRate	1372.68							
			8	3.00		2.10	50.40		
			2	4.0		1.50	12.00		
	First Floor	Sqm					62.40	1372.68	85,655.23
	Basic Rate	1271.00							
		2.00							
		1273.00							
	AW 8%	101.84							
	TotalRate	1374.84							
			8	3.00		2.10	50.40		
			2	4.0		1.50	12.00		
		Sqm					62.40	1374.84	85,790.02
25	Providing and laying flooring using prepolished, water cut/gang saw 19mm thick granite laid over bed of 20mm thick 1:4 cm & jointed with neat cement slurry mixed with pigment to mach shade of granite slabs including laying POP on finished surface and cleaning the surface, including the cost of all materials and labours etc., complete as per specifications.-do- using silver grey granite/Multy Red/Ruby Red/Black/ Hassan Green Granite of width not less than								
	BCSR Item No 14.47.1, Page No. 104								
	Ground floor								
	Basic Rate	2739.00							
	AW 8%	219.12							
	TotalRate	2958.12							
	corridor								
	Stairs		1	37.00	1.50				
	landings		44	1.20	0.45		55.50		
			2	1.20	1.20		23.76		
		Sqm					2.88		
	Basic Rate	2739.00					82.14	2958.12	242,979.98
		2.00							
		2741.00							
	AW 8%	219.28							
	TotalRate	2960.28							
	First Floor								
		Sqm							
26	"Providing and fixing skirting of 100mm high using prepolished water cut/gang saw of 19mm thick grey granite 0.5mm wide chamfered width and depth and fixing in CM 1:4 of 20mm thick after chipping the walls etc., & Providing half nosing for 20mm thick granite slab using required machinery including cost & conveyance of all materials, cost of labour for all items of work, equipment and all other incidental charges for the successful completion of the work.						82.14	2960.28	243,157.40
	BCSR Item No 14.50 & 14.56, Page No .105								
	Ground floor								

Sl. No.	Description	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
	Basic Rate	759.00							
		180.00							
		939.00							
	AW 8%	75.12							
	TotalRate	1014.12							
			1	157.60			157.60		
	First floor	Rmt					157.60	1014.12	159,825.3
	Basic Rate	759.00							
		180.00							
		2.00							
		941.00							
	AW 8%	75.28							
	TotalRate	1016.28							
			1	157.60			157.60		
		Rmt					157.60	1016.28	160,165.73
27	KSRB 9.4-2: Providing Red Sal wood frames for doors, wrought, framed or assembled including making plaster grooves (excluding cost of concrete and side clamps) including cost of all materials, formwork, labour charges, HOM of Machineries, loading, unloading ,with all lead and lifts etc., compelte & as per specification and as directed by Engineer. (samples to be got approved before execution).								
	refer item 9.13.1, Page No no.51								
	Basic Rate	60614.00							
		60614.00							
	AW 8%	4849.12							
	TotalRate	65463.12							
	Ground Floor								
			5	6.60	0.15	0.10	0.50		
			2	6.00	0.15	0.10	0.18		
	First Floor		8	4.95	0.15	0.10	0.59		
			5	6.60	0.15	0.10	0.50		
			2	6.00	0.15	0.10	0.18		
			8	4.95	0.15	0.10	0.59		
		Cum							
							2.54	65463.12	166,145.40
28	Fixing of Door frames in an existing opening including embedding frame in floor and walls after cutting masonry for embedding holdfasts including providing & fixing 3/4 of MS hold fasts of size 200x20x3mm for each side and fixed to the frame and embeded with PCC 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20mm nominal size), painting two coats of coal tar to sides of frames, making good the damages to walls & floor as required and disposal of debris including cost of materials, labour, HOM of machineries complete as per specifications all as per the drawing and as per the directions of the Engineer-in-charge of the								
	BCSR Item No 9.80, Page No 57								
	Basic Rate	1366.00							
	AW 8%	109.28							
	TotalRate	1475.28							
a	Ground Floor								
		Nos.							
	Basic Rate	1366.00					15.00	1475.28	22,129.20
		4.00							
		1370.00							
	AW 8%	109.60							
	TotalRate	1479.60							
b	First Floor								
		Nos.							
							15.00	1479.60	22,194.00
29	Providing and fixing in position panelled shutters for doors made out of honnewood styles and rails of 40mm thick with bottom and lock rails 180mm wide, top rail and styles 100mm wide and panels of 18mm thick of exterior grade plain particle board, fixed with necessary teakwood beading including cost of materials, labour, HOM of machineries complete as per specifications with all lead & lift, loading & unloading and all other incidental charges etc. all as per the drawing and as per the directions of the Engineer-in-charge of the work (excluding								
	BCSR Item No 9.36, Page No 53								
	Basic Rate	3529.00							
	AW 8%	282.32							
	TotalRate	3811.32							
	Ground Floor								
			5	1.20	2.10		12.60		

Sl. No.	Description	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
			2	0.90	2.10				
		Sqm					3.78		
							16.38	3811.32	62,429.4
	Basic Rate	3529.00							
		4.00							
		3533.00							
	AW 8%	282.64							
	TotalRate	3815.64							
	First Floor								
			5	1.20	2.10		12.60		
			2	0.90	2.10		3.78		
		Sqm					16.38	3815.64	62,500.1
30	Providing and fixing rigid PVC multi chamber hollow section for door and with profile of extruded section stipulated as per I.S 130034-1990, frames should be of size 50x50x2.5 mm, Weight 0.79 Kg / meter and double wall EPDM gasket reinforced with electrogalvanised cold rolled sheet chambers of size 25x17x1.6 mm, Weight 0.90 Kg / meter, multi chamber section assembled to the required galvanised steel of 10 mm dia. outer edge of shutter to be provided with P.V.C channels of size 35x35x2 mm, Weight of 0.31 Kg / meter, having interlocking facility including fixtures like Aluminium Aldrop, Tower bolts, door handles etc., all complete as per the directions of the Engineer-in-charge of the project.								
	Refer BCSR item 9.91, Page No. 59								
	Basic Rate	3250.00							
	AW 8%	260.00							
	TotalRate	3510.00							
	Ground Floor								
			8	0.75	2.1		12.60		
		Sqm					12.60	3510.00	44,226.00
	Basic Rate	3250.00							
		4.00							
		3254.00							
	AW 8%	260.32							
	TotalRate	3514.32							
	First Floor								
			8	0.75	2.1		12.60		
		Sqm					12.60	3514.32	44,280.43
31	KSRB 7.8 : Providing and fixing in position in cement concrete 1:3:6 steel glazed windows and ventilators side hung/top hung 2/3 openable 1/3 fixed as per approved drawings using Z angles of 25x33x3mm, weighing 1.419 kg/m both for outer and inner frames and central mullion section of size 25x46x3mm, weighing 2.28kg/m all duly providing T section 19x19x3mm weighing 0.839 kg/m for glazing of windows, not more than 34 ems. c to c including providing and fixing 4mm. thick reeded glass with teakwood beading of required size, all steel sections should confirm to I.S 7452:1990, 4nos. of holdfasts of approved size, section should be cut to length welded and grinded electrically subdividing frames of unit shall be tenonned and revetted into the frames electrically. All the steel surface shall be throughly cleaned free of rust and painted with one coat of anti-corrosive paint and finishing two coats of ready mix paint of approved colour and								
	BCSR Item No 7.8Page No. 34								
	Basic Rate	3328.00							
	AW 8%	266.24							
	TotalRate	3594.24							
	Ground floor								
	W								
	V		16	1.20		1.20	23.04		
	V2		12	0.60		0.45	3.24		
			2	1.20		0.45	1.08		
		Sqm.							
	Basic Rate	3328.00					27.36	3594.24	98,338.41
		6.00							
		3334.00							
	AW 8%	266.72							
	TotalRate	3600.72							
	First floor								
		Sqm.							
							27.36	3600.72	98,515.70

Sl. No.	Description	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
32	Providing and fixing MS grill work for windows and ventilators weighing 21 kgs./ sqm. using MS flats or MS square bars or combination of MS flats and square bars as per approved design, drawing including cutting steel sections and welding the same to required pattern with a coat red lead primer & two coats synthetic enamel paint, cost of materials, fixtures, labour and HOM of machinery complete as per technical specification and as directed by the Engineer-in-Charge of work with all lead & lift, loading & unloading and all other incidental								
	BCSR Item No 7.9, Page No. 32								
	Basic Rate	95.00							
	AW 8%	7.60							
	TotalRate	102.60							
	Ground floor								
		Kgs.							
	Basic Rate	95.00					574.56	102.60	58,949.86
		6.00							
		101.00							
	AW 8%	8.08							
	TotalRate	109.08							
	First floor								
		Kgs.							
							574.56	109.08	62,673.00
33	Providing & applying water proofing to concrete surfaces using high quality polymer-modified bituminous compounds (confirming to ASTM Sqm D 5147) reinforced with non woven polyester fabric, weighing 180gml sqm granular finish 4mm thick by torch on application method confirming to the properties indicated below. It shall be provided after priming the surface using bitumen primer at 0.2 ltr lsqm. Detailed specification & Methodology 1. Membrane thickness 4mm (+ or - 5%) 2. Tensile strength - Longitudinal 790 N15cm Transverse 730 N15cm 3. Elongation of Membrane - Longitudinal 65% Transverse 69% 4. Tear Resistance - Longitudinal 180 N Transverse 190 N 5. Lap joint strength - Longitudinal 750 N15cm Transverse 550 N15cm 6. Puncture Resistance - Static 1.4 Dynamic 1.3 7. Water absorption - < 0.15% 8. Water permeability - Nil 9. Chemical resistance - Chloride, sulphate and Nitrate The area to be water proofed shall be free from loose aggregate, dust free and in dry condition. Primer must be applied to the surface and allowed to dry prior to application of membrane. The membrane shall be applied within 6 hours after application of primer. The membrane comes in a roll form shall be unrolled and placed in the correct position where it has to be torched. Each layer must over lap the next layer by min 10cm at the adjacent and 15cm at the ends. The heat application through propane gas torch shall be applied on membrane thus causing melting and subsequent adhesion in the surface. The membrane should be properly placed and torched on in staggered position. and lifts etc., compelte including cost of all materials, formwork, labour charges, HOM of Machineries, loading, unloading ,with all lead and lifts etc., compelte & as per specification and as directed by								
	BCSR Item No 38.1, Page No.262								
	Basic Rate	430.00							
	AW 8%	34.40							
	TotalRate	464.40							
			1	21.60	5.90		127.44		
			1	15.80	5.90		93.22		
		Sqm.					220.66	464.40	102,474.50
34	KSRB 13-11.1: Over Head Synthetic Tanks - Providing, Placing on Terrace, Polyethylene storage tanks with manhole lid and suitable locking arrangements, making holes of suitable diametre for inlet,outlet and over flwo pipes including cost of all materials, labour, transport charges, HOM of euipments and testing complete as per specifications for 2000 Litres Capcity including cost of all materials, formwork, labour charges, HOM of Machineries, loading, unloading ,with all lead and lifts etc., compelte & as per specification and as directed								
	BCSR Item No 13.78, Page No .94								
	Basic Rate	6828.00							
	AW 8%	546.24							
	TotalRate	7374.24							
		Nos							
							1.00	7,374.24	7,374.24
	ELECTRICAL WORKS								
	Open Conduit System								8,226,852.69

Sl. No.	Description	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
35	supplying heavy gauge pvc conduit pipe... dia confirming to IS 2509 with suitable size benda. Junction boxes, adhesive paste etc., and fixing using inverted wood plugs in case of RCC ceiling and RCC wall stone structure or rawl plugs in case of brick walls and cement plastering dameged portion using havey gauge saddles at an intereval of 70mm using NF screws (ELE SR 2019-20 Page-								
	25mm dia 2mm thick Concealed Conduit System		1	168.00		mtr	168.00	65.00	10920.00
36	Suppling... mm dia 2mm/2.5mm thick heavy gauge PVC conduit pipe with suitable size bends, metal/PVC junction boxes adhesive paste etc..., and running before concreting the slab. The conduit should be tied to the reinforcement rods by using binding wires and unused ways of junction boxes and pipe ends should be covered using PVC end enclosures. run with 18SWG GI fish wire wherever necessary.**(ELE SR 2019-20 Page-2, Item-1.2.2)**								
	25mm dia 2mm thick		1	168.00		mtr	168.00	53.00	8904.00
37	Groove cutting in the wall suppling.. Dia 2mm/2.5mm thick heavy gauge PVC Conduit pipe with bends, metal junction boxes adhesive paste etc., and bracing U or J hooks and cement plastering up to the surface of the brick level and run with 18 SWG GI fish wire run through out conduit wherever necessary.**(ELE SR 2019-20 Page-2, Item-1.3.2)**								
	25mm dia 2mm thick		1	138		mtr	138.00	54.00	7452.00
38	Supplying and fixing sheet metal box made out of 18 SWG sheet metal with necessary holes for cable/conduit entry as required with one coat of approved make etc.,.**(ELE SR 2019-20 Page-2, Item-1.4.5)**								
	200x90x65mm		18			Each	18.00	111.00	1998.00
39	supplying and fixing PVC/ Metal conduit accessories. (3/5) **(ELE SR 2019-20 Page-3, Item-1.5.3)**								
	a)32mm deep junction box		6			Each	6.00	60.00	360.00
40	Suppling and flush mounting teak wooden box without front plank, made of not less than 12mm thick wood, after due groove cutting, necessary masonry patch work complet. **(ELE SR 2019-20 Page-3, Item-1.6.1-1.6.8)**								
	12"x12"x3"(330x300x76mm		1	60		mtr	60.00	102.00	6120.00
41	Suppling and wiring adopting loop system in existing PVC Conduit/ casting capping using copper PVC insulated multi strand 2x1.5sqmm copper wire with a 6 Amps flush type SP control switch shall be fixed on the existing plastic sheet / gang box. The outher end of the wires shall be terminated with sufficient loose lenght in a wood / PVC round block. compelete for each outlet. **(ELE SR 2019-20 Page-5, Item-2.1.2)**								
	Medium point above 3Mtr up to 6 mtr from tapping point to out let via switch					Each	12	275.00	3300.00
42	Suppling and fixing superior quality modular switch mounting polycarbonate plate with necessary supporting back plate with required nos, of machines screws, bolts nuts etc., complete on the existing metal/PVC box,**ELE SR 2019-20 Page-9, Item-3.5.3)**								
	Group-A								
	Moudule		30			No	30.00	175.00	5250.00
43	Supplying and fixing of 32 Amps security and energy saving DP switch with key tag suitable to operate on 230 volts, 50Hz AC supply and completely wired on existing box. **ELE SR 2019-20 Page-10, Item-3.7)**								
	Group 'A'		12			Each	12.00	680.00	8160.00
44	Wiring for lighting/power circuit using one of pvc insulated 1100v grade, multistrand copper conductor singal core cable in open or concealed system of wiring.**ELE SR 2019-20 Page-5, Item-**								
	1. Group-A								
	a)1.5sqmm		1	516.0		mtr	516.0	20.50	10578.00
	b)6 sqmm		1	474.0		mtr	474.0	70.00	33180.00
45	Supplying and fixing of PVC casing and capping on the wall or ceilng using necessary materials like bends, screws at an interval of 300mm... Etc as required. **ELE SR 2019-20 Page-3, Item-1.8.1)**								
	20mm		90			Each	90.00	22.00	1980.00

Sl. No.	Description	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
46	Supplying PVC/GI Flexible conduit pipe.. Mm dia fixing on surface over inverted wooden pugs or phill plugs or rawl plugs and clamped using heavy gauge saddles at an interval of 300mm using NF screws and either end of the pie terminated completely. **ELE SR 2019-20 Page-3, Item-1.9.1)**								
	20mm	1	96			Each	96.00	22.00	2112.00
47	Extra for supplying 4mm thick white plastic plate and covering for junction boxes of size 110mm conduit using necessary machine screws.. **ELE SR 2019-20 Page-10, Item-3.10.2)**								
	110mm	1	96			Each	96.00	11.00	1056.00
48	Providing and fixing Chorinated Poly Venyl Chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamp at 1.00 mtr spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement & the cost of cutting chases & making good the same including testing of joints complete. (Concealed work including cutting chases and good the walls etc.) - 20mm nominal OD pipes. **(P.No.99, I.No. 13.86.2 of PWD SR 2018-19)**								
	Basic Rate								
	Area Weightage 3%	235.00							
	Total	7.05							
		242.05							
		1		330		Rmt	330	242.05	79876.50
								Total Construction Cost	8408099.19
								Towards GST 12%	1008971.90
								Tender premiun 5%	420404.96
								DPR and PMC Charges 2%	160000.00
								Sub Total	9997476.06
								Utility Shifting,Miscellaneous and Rounding off	2,523.94
	GRAND TOTAL								10000000.00

Assistant Engineer

Asst. Executive Engineer

Executive Engineer
Yelahanka Division
BBMP Bangalore

Bruhat Bangalore Mahanagara Palike
Executive Engineer Yelahanka Division

Name of Work:Improvements to roads and drains at Ananthapura village limits

Sl No	Description of Item	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
									Est Cost: 200.00 Lakh
	Civil Work								
1	KSRRB 300-1. **Earthwork excavation by manual means** for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications (I No-19.1,P No-141), 10km lead = (1.28x2x10)+57.								
	Basic rate	130.00							
	Area Weightage 6%	7.80							
	Loading and Unloding & Lead	82.60							
	Total	**220.40**							
	CC Drain	**Cum**							
	Ananthapura								
	Sidddeshwara mata rd		2	275.00	1.10	1.10	665.50		
	1st cross rd **LHS**		2	80.00	1.10	1.00	176.00		
	1st cross rd **RHS**		2	60.00	1.10	1.00	132.00		
	2nd cross rd **LHS**		2	62.00	1.10	1.00	136.40		
	2nd cross rd **RHS**		2	60.00	1.10	1.00	132.00		
	Tirumalanagar								
	2nd cross		2	302.00	1.10	1.10	730.84		
	Rain Water Harvesting pits		15	0.31		1.80	8.37		
	Culverts		8	7.00	1.50	1.00	84.00		
							2065.11	**220.40**	**455150.24**
2	Filling in foundation with granite/trap broken metal 100mm and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with lead up to 50m and lift 1.5m complete as per specifications. Data Rate								
	Data rate	1901.00							
	a) 40mm Jelly	Cum	15	0.31		0.40	**1.86**	**1901**	**3,535.86**
	Data rate	1901.00							
	b) 20mm Jelly	Cum	15	0.31		0.40	**1.86**	**1901**	**3,535.86**
	Data rate	2651.00							
	c) Coarse sand.	Cum	15	0.31		0.30	**1.40**	**2651**	**3,698.15**
	Data rate	2651.00							
	d) Fine Sand	Cum	15	0.31		0.20	**0.93**	**2651**	**2,465.43**
	Data rate	1901.00							
	e) 12.5mm chips	Cum	15	0.31		0.30	**1.40**	**1901**	**2,651.90**

Sl No	Description of Item	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
3	Supplying, laying and jointing HDPE pipes of specified grade and conforming to IS 4984- 995 with latest amendments and conveyingto work site including loading and unloading at both destinations and rolling and lowering into trenches, laying true to line and jointing of pipes and specials, giving hydraulic test as per relevant ISS with all lead and lifts including encasing the pipe alround to a depth of not less than 15 cms. with soft gravel or selected earth available from the excavation, testing and commissioning. The rate is exclusive of required specials and fittings wherever necessary like saddle Tee, stub ends, flanged sets, bends, reducers etc. complete (Contractor will make his own arrangements for procuring water for testing) etc. for : **HDPE Grade PE80-PN6.0, 630 mm dia.** (Perforated Pipe for Rain Water Harvesting Pit) (BWSSB SR 2017-18, Pg No 121 Item No. 1.17 Code No. K010Q)								
	Basic rate	12121.00							
	Deduct 12% GST	1298.68							
	Total	10822.32							
		Rmt							
	0.63m dia HDPE Perforated Pipe. For 1.8 Mtr depth,		15	1.80			27.00		
							27.00	**10822.32**	**292202.64**
4	**Providing of Geonets** for Rain Water Harvesting pit on top of the filter media as specified indrawings or as approved by Engineer Incharge. Data Rate								
	Data rate	71.03							
		Sqm	15	0.31			**4.65**	**71.03**	**330.29**
5	KSRB 4-1.2 : Providing and laying in **position plain cement concrete of Mix 1:3:6** with OPC @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM curing complete as per specifications. (P.No-13,I No-4.2,KPWD SR 2018-19)								
	Basic rate	5194.00							
	Area Weightage 6%	311.64							
	Total	**5505.64**							
	CC Drain	**Cum**							
	Ananthapura								
	Sidddeshwara mata rd		2	275.00	1.10	0.15	90.75		
	1st cross rd **LHS**		2	80.00	1.10	0.15	26.40		
	1st cross rd **RHS**		2	60.00	1.10	0.15	19.80		
	2nd cross rd **LHS**		2	62.00	1.10	0.15	20.46		
	2nd cross rd **RHS**		2	60.00	1.10	0.15	19.80		
	Tirumalanagar								
	2nd cross		2	302.00	1.10	0.15	99.66		
	Culverts		8	7.00	1.50	0.15	12.60		
							289.47	**5505.64**	**1593717.61**
6	Providing and laying **plain/reinforced cement concrete** for side drains using M20 nominal mix concrete with OPC at 300 kgs. with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500, 1700, 2200. including cost of materials, labour, HOM complete as per specificationsdo- Wall & bottom thickness 15cm (I No-37.59.2,P No-271,KPWD SR 2018-19)								
	Basic rate	6670.00							
	Area Weightage 6%	400.20							

Sl No	Description of Item	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
	Total	7070.20							
	CC Drain Raft	Cum							
	Ananthapura								
	Siddeshwara mata rd		2	275.00	0.90	0.15	74.25		
	1st cross rd **LHS**		2	80.00	0.90	0.15	21.60		
	1st cross rd **RHS**		2	60.00	0.90	0.15	16.20		
	2nd cross rd **LHS**		2	62.00	0.90	0.15	16.74		
	2nd cross rd **RHS**		2	60.00	0.90	0.15	16.20		
	Tirumalanagar								
	2nd cross		2	302.00	0.90	0.15	81.54		
	CC Drain Wall								
	Ananthapura								
	Siddeshwara mata rd		4	275.00	0.15	0.65	107.25		
	1st cross rd **LHS**		4	80.00	0.15	0.60	28.80		
	1st cross rd **RHS**		4	60.00	0.15	0.65	23.40		
	2nd cross rd **LHS**		4	62.00	0.15	0.65	24.18		
	2nd cross rd **RHS**		4	60.00	0.15	0.65	23.40		
	Tirumalanagar								
	2nd cross		4	302.00	0.15	0.65	117.78		
							551.34		
	Culverts		8	7.00	1.20	0.20	13.44		
	Culverts Wall		16	7.00	0.23	0.60	15.46		
							28.90		
							580.24	**7070.20**	**4102384.57**
7	KSRRB M2200-6. **Providing T.M.T. steel reinforcement** for R.C.C. work including straightening, cutting, bending, hooking, placing in position, lapping and/or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per disign (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specification. MORTH Specification No.1600 & 2200(I No-28.8.2,P No-229)								
	Basic rate	68233.00							
	Area Weightage 6%	4093.98							
	Total	**72326.98**							
	Consider 60kg/Cum for Drain	**Tn**	1	551.34	60.00		33080.40		
	Consider 90kg/Cum for Drain		1	28.90	90.00		2600.64		
							35681.04		
							35.68	**72326.98**	**2580701.87**
8	Providing and Fixing **pre cast covering Slab 250mm thick** made out of CC 1:2:4 and jelly 20mm Down size with steel reinforcement including form work,curing,including cost of alll materials, labour,hire charges of machinery, loading, unloading, lead and lift,transportation etc ,complete.As per Engineer incharge. (Data Rate)								
	Data rate	**5418.00**							
	Culverts	**Sqm**	8	7.00	1.20		67.20		
							67.20	**5418.00**	**364089.60**
9	Providing and Fixing **pre cast covering Slab** made out of CC 1:2:4 with **10cm thick** and Finishing cutting , including form work, cost of alll materials, labour,hire charges of machinery,loading,unloading,lead and lift,transportation etc ,copmplete. (Data Rate)								
	Data rate	2337.00							
	CC Drain Top Covering Slab	**Sqm**							
	Ananthapura								

Sl No	Description of Item	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
	Sidddeshwara mata rd								
	1st cross rd LHS		2	275.00	0.90		495.00		
	1st cross rd RHS		2	80.00	0.90		144.00		
	2nd cross rd LHS		2	60.00	0.90		108.00		
	2nd cross rd RHS		2	62.00	0.90		111.60		
	Tirumalanagar		2	60.00	0.90		108.00		
	2nd cross								
			2	302.00	0.90		543.60		
							1510.20	**2337.00**	**3529337.40**
10	KSRB 4-1.6 ; Providing and laying in position **plain cement concrete of Mix 1:2:4** with OPC @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregtes @ 0.53cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM curing complete as per specifications. Specification No. KBS 4.1, 4.2(P.No-13,I No-4.6)								
	Basic rate	5422.00							
	Area Weightage 6%	325.32							
	Total	**5747.32**							
		Cum							
	Ananthapura								
	Sidddeshwara mata rd		2	275.00	0.20	0.10	11.00		
	Tirumalanagar								
	2nd cross		2	302.00	0.20	0.10	12.08		
							23.08	**5747.32**	**132648.15**
11	Providing and fixing **pre cast solid cement concrete kerb stones** made out of C.C. 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting, including form work, curing, including cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc., complete.(P.No-27,I No-5.30)								
	Basic rate	408.00							
	Area Weightage 6%	24.48							
	Total	**432.48**							
		Nos							
	Ananthapura								
	Sidddeshwara mata rd		2	275.00			550.00		
	Tirumalanagar								
	2nd cross		2	302.00			604.00		
							1154.00		
							2564.00	**432.48**	**1108878.72**
12	KSRRB 800-1. **Painting two coats** after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. MORTH Chapter 8 (P.No-180,I No-24.1)								
	Basic rate	80.00							
	Area Weightage 6%	4.80							
	Total	**84.80**							
		Sqm							
	Ananthapura								
	Sidddeshwara mata rd		2	275.00	0.40		220.00		
	Tirumalanagar								
	2nd cross		2	302.00	0.40		241.60		
							461.60	**84.80**	**39,143.68**

Sl No	Description of Item	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
13	KSRRB M300-14. **Excavation for roadwork** in all types of soil by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete as per specifications MORTH Specificatio MORTH Specification No.301Loading and unloading with 10km lead= (I No-19.14,P No-143) 10km lead = (1.28x2x10)								
	Basic rate	41.00							
	Area Weightage 6%	2.46							
	Loading and Unloding & Lead	20.80							
	Total	**64.26**							
		Cum							
	Ananthapura								
	1st cross rd **RHS**								
	2nd cross rd **RHS**		1	60.00	5.80	0.30	104.40		
			1	60.00	6.00	0.30	108.00		
							212.40	**64.26**	**13,648.82**
14	KSRRB 300-58. **Compaction of original ground** by mechanical means including filling in depression occuring during rolling including cost of all labour, HOM complete as per specifications. MORTH / Chapter 3 (I No-19.64,P No-147)								
	Basic rate	6.00							
	Area Weightage 6%	0.36							
	Total	**6.36**							
		Sqm							
	Ananthapura								
	1st cross rd **RHS**								
	2nd cross rd **RHS**		1	60.00	5.80		348.00		
			1	60.00	6.00		360.00		
							708.00	**6.36**	**4,502.88**
15	Construction of **granular sub-base Grading-V** as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/ trap/basalt material, mixing in a mechanical mix plant at OMC, Carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications Clause 401 of MORTH V Revision.(I No-20.5,P No-153)								
	Basic rate	1882.00							
	Area Weightage 6%	112.92							
	Total	**1994.92**							
		Cum							
	Ananthapura								
	1st cross rd **RHS**								
	2nd cross rd **RHS**		1	60.00	5.80	0.15	52.20		
	Bad reaches/edge correction		1	60.00	6.00	0.15	54.00		
	Sidddeshwara mata rd								
	1st cross rd **LHS**		1	275.00	1.60	0.15	66.00		
	2nd cross rd **LHS**		1	80.00	1.60	0.15	19.20		
			1	62.00	1.70	0.15	15.81		
							207.21	**1994.92**	**413367.37**
16	KSRRB M400-17. Providing, laying, spreading and compacting cushed stone aggregates of granite / trap / basalt to **wet mix macadam** specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications(P.No-155,I No-20.18)								

Sl No	Description of Item	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
	Basic rate	1888.00							
	Area Weightage 6%	113.28							
	Total	**2001.28**							
	Ananthapura	**Cum**							
	1st cross rd **RHS**								
	2nd cross rd **RHS**		1	60.00	5.80	0.225	78.30		
	Bad reaches/edge correction		1	60.00	6.00	0.225	81.00		
	Sidddeshwara mata rd								
	1st cross rd **LHS**		1	275.00	1.60	0.225	99.00		
	2nd cross rd **LHS**		1	80.00	1.60	0.225	28.80		
			1	62.00	1.70	0.225	23.72		
							310.82	**2001.28**	**622027.84**
17	KSRRB M500-6. Providing and applying **primer coat** with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications Clause 502 of MORTH V revision(P.No-158,I No-21.6)								
	Basic rate	32.00							
	Area Weightage 6%	1.92							
	Total	**33.92**							
	Ananthapura	**Sqm**							
	1st cross rd **RHS**								
	2nd cross rd **RHS**		1	60.00	5.80		348.00		
	Bad reaches/edge correction		1	60.00	6.00		360.00		
	Sidddeshwara mata rd								
	1st cross rd **LHS**		1	275.00	1.60		440.00		
	2nd cross rd **LHS**		1	80.00	1.60		128.00		
			1	62.00	1.70		105.40		
							1381.40	**33.92**	**46,857.09**
18	KSRRB M500-17. Providing and laying **dense graded bituminous macadam** using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications Clause 505 of MORTH V revisionusing 40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75 mm) with 4.5 % VG-30 Bitumen (P.No-160,I No-21.17.6)								
	Basic rate	7008.00							
	Area Weightage 6%	420.48							
	Total	**7428.48**							
	Ananthapura	**Cum**							
	1st cross rd **RHS**								
	2nd cross rd **RHS**		1	60.00	5.80	0.05	17.40		
	Bad reaches/edge correction		1	60.00	6.00	0.05	18.00		
	Sidddeshwara mata rd								
	1st cross rd **LHS**		1	275.00	1.60	0.05	22.00		
	2nd cross rd **LHS**		1	80.00	1.60	0.05	6.40		
			1	62.00	1.70	0.05	5.27		
							69.07	**7428.48**	**513085.11**

Sl No	Description of Item	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
19	KSRRB 500-7. Providing and applying **tack coat** using 80/100 grade bitumen(VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM complete as per specifications (P.No-161,I No-21.7)								
	Basic rate	12.00							
	Area Weightage 6%	0.72							
	Total	**12.72**							
		Sqm							
	Ananthapura								
	1st cross rd **RHS**								
	2nd cross rd **RHS**		1	60.00	5.80		348.00		
	Sidddeshwara mata rd		1	60.00	6.00		360.00		
	1st cross rd **LHS**		1	275.00	4.80		1320.00		
	2nd cross rd **LHS**		1	80.00	5.00		400.00		
			1	62.00	5.70		353.40		
							2781.40	**12.72**	**35,379.41**
20	Providing and laying **bituminous concrete 40mm thick** with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. Clause 507 of MORTH V revision as per IRC SP-53-2015. using 40-60 TPH capacity HMP with mechanical paver grading II (30-45mm) with 5.4 % of modified bituminus binder consisting of 4.97% of VG-30 bitumen (60/70 grade) and 0.43% of plastomeric thermoplastics (waste plastic)(P.No-171,I No-21.78.12)								
	Basic rate	8207.00							
	Area Weightage 6%	492.42							
	Total	**8699.42**							
		Cum							
	Ananthapura								
	1st cross rd **RHS**								
	2nd cross rd **RHS**		1	60.00	5.80	0.03	10.44		
	Sidddeshwara mata rd		1	60.00	6.00	0.03	10.80		
	1st cross rd **LHS**		1	275.00	4.80	0.04	52.80		
	2nd cross rd **LHS**		1	80.00	5.00	0.04	16.00		
			1	62.00	5.70	0.04	14.14		
							104.18	**8699.42**	**906270.78**
21	KSRRB M800-13.**Road Marking with Hot Applied Thermoplastic Compound** with Reflectrising Glass Beads on Bituminous Surface/ Concrete Surface: Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35 standards specified. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803(P.No-182,I No-24.15)								
	Basic rate	429.00							
	Area Weightage 6%	25.74							
	Total	**454.74**							
		Sqm							
	Ananthapura								
	1st cross rd **RHS**								
	2nd cross rd **RHS**		2	60.00	0.10		12.00		
			2	60.00	0.10		12.00		

Sl No	Description of Item	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
	Sidddeshwara mata rd		2	275.00	0.10		55.00		
	1st cross rd LHS		2	80.00	0.10		16.00		
	2nd cross rd LHS		2	62.00	0.10		12.40		
							107.40	454.74	48,839.08
	Total Construction Cost								16818450.3
	Towards GST 12%								2018214.0
	Tender premiun 5%								840922.5
	DPR and PMC Charges 2%								322000.0
	Sub Total								19999586.9
	Utility Shifting,Miscellaneous and Rounding off								413.0
	GRAND TOTAL								20000000.0

Certificate

1. The workspot was inspected and works is found to be necessary.
2. The area comes within the Bruhat Bangalore Mahanagara Palike limits.
3. The rates adopted based on the PWD SR,Bangalore circle for year 2018-2019, issue rates dated 21-10-2019 and Data Rates

Assistant Engineer
Ward 03
BBMP Bangalore

Asst. Executive Engineer
Yelahanka New Town Sub Division
BBMP Bangalore

Executive Engineer
Yelahanka Division
BBMP Bangalore

Bruhat Bangalore Mahanagara Palike
Executive Engineer Yelahanka Division

Name of Work: Improvements to roads and drains at Ananthapura village Nisarga layout Limits

Sl No	Description of Item	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
									Est Cost: 250.00 Lak
	Civil Work								
1	**KSRRB 300-1. Earthwork excavation by manual means** for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications (I No-19.1,P No-141), 10km lead = (1.28x2x10)+57.								
	Basic rate	130.00							
	Area Weightage 6%	7.80							
	Loading and Unloding & Lead	82.60							
	Total	**220.40**							
	CC Drain	**Cum**							
	Nisarga layout								
	10th B main rd								
	10th C main rd		2	37.00	1.10	0.85	69.19		
	10th E main rd		2	37.00	1.10	0.85	69.19		
	Cross rd		2	245.00	1.10	0.85	458.15		
	10th F main rd		2	30.00	1.10	0.90	59.40		
	10thG main rd		2	248.00	1.10	0.90	491.04		
	Cross rd-1		2	250.00	1.10	0.90	495.00		
	cross rd-2		2	21.00	1.10	0.90	41.58		
	Ananthapura		2	25.00	1.10	0.90	49.50		
	11th Main rd								
	Cross Rd - 3								
	Tirumalanagar		2	70.00	1.10	0.90	138.60		
	Temple Rd								
	Culverts		2	238.00	1.10	0.90	471.24		
	Rain Water Harvesting pits		4	5.80	1.50	0.90	31.32		
			12	0.31		1.80	6.70		
							2380.91	**220.40**	**524751.68**
2	Filling in foundation with granite/trap broken metal 100mm and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with lead up to 50m and lift 1.5m complete as per specifications. Data Rate								
	Data rate	1901.00							
	a) 40mm Jelly	Cum	12	0.31		0.40	**1.49**	**1901**	**2,828.69**
	Data rate	1901.00							
	b) 20mm Jelly	Cum	12	0.31		0.40	**1.49**	**1901**	**2,828.69**
	Data rate	2651.00							
	c) Coarse sand.	Cum	12	0.31		0.30	**1.12**	**2651**	**2,958.52**
	Data rate	2651.00							
	d) Fine Sand	Cum	12	0.31		0.20	**0.74**	**2651**	**1,972.34**
	Data rate	1901.00							
	e) 12.5mm chips	Cum	12	0.31		0.30	**1.12**	**1901**	**2,121.52**

Sl No	Description of Item	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
3	Supplying, laying and jointing HDPE pipes of specified grade and conforming to IS 4984- 995 with latest amendments and conveyingto work site including loading and unloading at both destinations and rolling and lowering into trenches, laying true to line and jointing of pipes and specials, giving hydraulic test as per relevant ISS with all lead and lifts including encasing the pipe alround to a depth of not less than 15 cms. with soft gravel or selected earth available from the excavation, testing and commissioning. The rate is exclusive of required specials and fittings wherever necessary like saddle Tee, stub ends, flanged sets, bends, reducers etc. complete (Contractor will make his own arrangements for procuring water for testing) etc. for : **HDPE Grade PE80-PN6.0, 630 mm dia**. (Perforated Pipe for Rain Water Harvesting Pit) (BWSSB SR 2017-18, Pg No 121 Item No. 1.17 Code No. K010Q)								
	Basic rate	12121.00							
	Deduct 12% GST	1298.68							
	Total	10822.32							
		Rmt							
	0.63m dia HDPE Perforated Pipe. For 1.8 Mtr depth,		12	1.80			21.60		
							21.60	**10822.32**	**233762.11**
4	**Providing of Geonets** for Rain Water Harvesting pit on top of the filter media as specified indrawings or as approved by Engineer Incharge. Data Rate								
	Data rate	71.03							
		Sqm	12	0.31			**3.72**	**71.03**	**264.23**
5	KSRB 4-1.2 : Providing and laying in **position plain cement concrete of Mix 1:3:6** with OPC @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM curing complete as per specifications. (P.No-13,I No-4.2,KPWD SR 2018-19)								
	Basic rate	5194.00							
	Area Weightage 6%	311.64							
	Total	**5505.64**							
	CC Drain	**Cum**							
	Nisarga layout								
	10th B main rd								
	10th C main rd		2	37.00	1.10	0.15	12.21		
	10th E main rd		2	37.00	1.10	0.15	12.21		
	Cross rd		2	245.00	1.10	0.15	80.85		
	10th F main rd		2	30.00	1.10	0.15	9.90		
	10thG main rd		2	248.00	1.10	0.15	81.84		
	Cross rd-1		2	250.00	1.10	0.15	82.50		
	cross rd-2		2	21.00	1.10	0.15	6.93		
	Ananthapura		2	25.00	1.10	0.15	8.25		
	11th Main rd								
	Cross Rd - 3								
	Tirumalanagar		2	70.00	1.10	0.15	23.10		
	Temple Rd								
	Culverts		2	238.00	1.10	0.15	78.54		
			4	5.80	1.50	0.15	5.22		
							401.55	**5505.64**	**2210789.74**

Sl No	Description of Item	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
6	Providing and laying **plain/reinforced cement concrete** for side drains using M20 nominal mix concrete with OPC at 300 kgs. with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500, 1700, 2200. including cost of materials, labour, HOM complete as per specificationsdo- Wall & bottom thickness 15cm (I No-37.59.2,P No-271,KPWD SR 2018-19)								
	Basic rate	6670.00							
	Area Weightage 6%	400.20							
	Total	**7070.20**							
	CC Drain Raft	**Cum**							
	Nisarga layout								
	10th B main rd								
	10th C main rd		2	37.00	0.90	0.15	9.99		
	10th E main rd		2	37.00	0.90	0.15	9.99		
	Cross rd		2	245.00	0.90	0.15	66.15		
	10th F main rd		2	30.00	0.90	0.15	8.10		
	10thG main rd		2	248.00	0.90	0.15	66.96		
	Cross rd-1		2	250.00	0.90	0.15	67.50		
	cross rd-2		2	21.00	0.90	0.15	5.67		
	Ananthapura		2	25.00	0.90	0.15	6.75		
	11th Main rd								
	Cross Rd - 3								
	Tirumalanagar		2	70.00	0.90	0.15	18.90		
	Temple Rd								
	CC Drain Wall		2	238.00	0.90	0.15	64.26		
	Nisarga layout								
	10th B main rd								
	10th C main rd		4	37.00	0.15	0.60	13.32		
	10th E main rd		4	37.00	0.15	0.60	13.32		
	Cross rd		4	245.00	0.15	0.60	88.20		
	10th F main rd		4	30.00	0.15	0.60	10.80		
	10thG main rd		4	248.00	0.15	0.60	89.28		
	Cross rd-1		4	250.00	0.15	0.60	90.00		
	cross rd-2		4	21.00	0.15	0.60	7.56		
	Ananthapura		4	25.00	0.15	0.60	9.00		
	11th Main rd								
	Cross Rd - 3								
	Tirumalanagar		4	70.00	0.15	0.65	27.30		
	Temple Rd								
			4	238.00	0.15	0.65	92.82		
	Culverts						**765.87**		
	Culverts Wall		4	5.80	1.20	0.23	6.40		
			8	5.80	0.23	0.60	6.40		
							12.81		
							778.68	**7070.20**	**5505397.88**
7	KSRRB M2200-6. **Providing T.M.T. steel reinforcement** for R.C.C. work including straightening, cutting, bending, hooking, placing in position, lapping and/or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per disign (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specification. MORTH Specification No.1600 & 2200(I No-28.8.2,P No-229)								
	Basic rate	68233.00							

Sl No	Description of Item	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
	Area Weightage 6%	4093.98							
	Total	**72326.98**							
	Consider 60kg/Cum for Drain	Tn	1	765.87	60.00		45952.20		
	Consider 90kg/Cum for Drain		1	12.81	90.00		1152.58		
							47104.78		
							47.10	**72326.98**	**3406946.19**
8	Providing and Fixing **pre cast covering Slab 250mm thick** made out of CC 1:2:4 and jelly 20mm Down size with steel reinforcement including form work,curing,including cost of alll materials, labour,hire charges of machinery, loading, unloading, lead and lift,transportation etc ,complete.As per Engineer incharge. (Data Rate)								
	Data rate	**5418.00**							
	Culverts								
		Sqm	4	5.80	1.20		27.84		
							27.84	**5418.00**	**150837.12**
9	Providing and Fixing **pre cast covering Slab** made out of CC 1:2:4 with **10cm thick** and Finishing cutting , including form work, cost of alll materials, labour,hire charges of machinery,loading,unloading,lead and lift,transportation etc ,copmplete. (Data Rate)								
	Data rate	2337.00							
	CC Drain Top Covering Slab	**Sqm**							
	Nisarga layout								
	10th B main rd								
	10th C main rd		2	37.00	0.90		66.60		
	10th E main rd		2	37.00	0.90		66.60		
	Cross rd		2	245.00	0.90		441.00		
	10th F main rd		2	30.00	0.90		54.00		
	10thG main rd		2	248.00	0.90		446.40		
	Cross rd-1		2	250.00	0.90		450.00		
	cross rd-2		2	21.00	0.90		37.80		
	Ananthapura		2	25.00	0.90		45.00		
	11th Main rd								
	Cross Rd - 3								
	Tirumalanagar		2	70.00	0.90		126.00		
	Temple Rd								
			2	238.00	0.90		428.40		
							2161.80	**2337.00**	**5052126.60**
10	KSRB 4-1.6 ; Providing and laying in position **plain cement concrete of Mix 1:2:4** with OPC @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregtes @ 0.53cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM curing complete as per specifications. Specification No. KBS 4.1, 4.2(P.No-13,I No-4.6)								
	Basic rate	5422.00							
	Area Weightage 6%	325.32							
	Total	**5747.32**							
		Cum							
	Tirumalanagar								
	Temple Rd								
			2	238.00	0.20	0.10	9.52		
							9.52	**5747.32**	**54,714.49**
11	Providing and fixing pre cast solid cement concrete **kerb stones made out of C.C. 1:2:4** with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting, including form work, curing, including cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc., complete.(P.No-27,I No-5.30)								
	Basic rate	408.00							
	Area Weightage 6%	24.48							

Sl No	Description of Item	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
	Total	432.48							
		Nos							
	Tirumalanagar								
	Temple Rd								
			2	238.00			476.00		
							476.00		
							1058.00	**432.48**	**457563.84**
12	KSRRB 800-1. **Painting two coats** after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. MORTH Chapter 8 (P.No-180,I No-24.1)								
	Basic rate	80.00							
	Area Weightage 6%	4.80							
	Total	**84.80**							
		Sqm							
	Tirumalanagar								
	Temple Rd								
			2	238.00	0.40		190.40		
							190.40	**84.80**	**16,145.92**
13	**Construction of granular sub-base Grading-V** as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/ trap/basalt material, mixing in a mechanical mix plant at OMC, Carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications Clause 401 of MORTH V Revision.(I No-20.5,P No-153)								
	Basic rate	1882.00							
	Area Weightage 6%	112.92							
	Total	**1994.92**							
		Cum							
	Ananthapura								
	Bad reaches/edge correction								
	11th Main rd								
	Cross Rd - 3								
	Nisarga layout		1	70.00	1.20	0.15	12.60		
	Bad reaches/edge correction								
	10th B main rd								
	10th C main rd		1	37.00	1.20	0.15	6.66		
	10th E main rd		1	37.00	1.20	0.15	6.66		
	Cross rd		1	245.00	1.20	0.15	44.10		
	10th F main rd		1	30.00	1.20	0.15	5.40		
	10thG main rd		1	248.00	1.20	0.15	44.64		
	Cross rd-1		1	250.00	1.35	0.15	50.63		
	cross rd-2		1	21.00	1.20	0.15	3.78		
			1	25.00	1.20	0.15	4.50		
							178.97	**1994.92**	**357020.86**
14	KSRRB M400-17. Providing, laying, spreading and compacting cushed stone aggregates of granite / trap / basalt to **wet mix macadam** specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications(P.No-155,I No-20.18)								
	Basic rate	1888.00							
	Area Weightage 6%	113.28							
	Total	**2001.28**							
		Cum							

Sl No	Description of Item	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
	Ananthapura								
	Bad reaches/edge correction								
	11th Main rd								
	Cross Rd - 3								
	Nisarga layout		1	70.00	1.20	0.225	18.90		
	Bad reaches/edge correction								
	10th B main rd								
	10th C main rd		1	37.00	1.20	0.225	9.99		
	10th E main rd		1	37.00	1.20	0.225	9.99		
	Cross rd		1	245.00	1.20	0.225	66.15		
	10th F main rd		1	30.00	1.20	0.225	8.10		
	10thG main rd		1	248.00	1.20	0.225	66.96		
	Cross rd-1		1	250.00	1.35	0.225	75.94		
	cross rd-2		1	21.00	1.20	0.225	5.67		
			1	25.00	1.20	0.225	6.75		
							268.45	**2001.28**	**537238.61**
15	KSRRB M500-6. **Providing and applying primer coat** with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications Clause 502 of MORTH V revision(P.No-158,I No-21.6)								
	Basic rate	32.00							
	Area Weightage 6%	1.92							
	Total	**33.92**							
		Sqm							
	Ananthapura								
	Bad reaches/edge correction								
	11th Main rd								
	Cross Rd - 3								
	Nisarga layout		1	70.00	1.20		84.00		
	Bad reaches/edge correction								
	10th B main rd								
	10th C main rd		1	37.00	1.20		44.40		
	10th E main rd		1	37.00	1.20		44.40		
	Cross rd		1	245.00	1.20		294.00		
	10th F main rd		1	30.00	1.20		36.00		
	10thG main rd		1	248.00	1.20		297.60		
	Cross rd-1		1	250.00	1.35		337.50		
	cross rd-2		1	21.00	1.20		25.20		
			1	25.00	1.20		30.00		
							1193.10	**33.92**	**40,469.95**
16	KSRRB M500-17. Providing and laying **dense graded bituminous macadam** using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications Clause 505 of MORTH V revisionusing 40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75 mm) with 4.5 % VG-30 Bitumen (P.No-160,I No-21.17.6)								
	Basic rate	7008.00							
	Area Weightage 6%	420.48							
	Total	**7428.48**							
	Ananthapura	**Cum**							
	Bad reaches/edge correction								

Sl No	Description of Item	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
	11th Main rd								
	Cross Rd - 3								
	Nisarga layout		1	70.00	1.20	0.05	4.20		
	Bad reaches/edge correction								
	10th B main rd								
	10th C main rd		1	37.00	1.20	0.05	2.22		
	10th E main rd		1	37.00	1.20	0.05	2.22		
	Cross rd		1	245.00	1.20	0.05	14.70		
	10th F main rd		1	30.00	1.20	0.05	1.80		
	10thG main rd		1	248.00	1.20	0.05	14.88		
	Cross rd-1		1	250.00	1.35	0.05	16.88		
	cross rd-2		1	21.00	1.20	0.05	1.26		
			1	25.00	1.20	0.05	1.50		
							59.66	**7428.48**	**443145.97**
17	KSRRB 500-7. **Providing and applying tack coat** using 80/100 grade bitumen(VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM complete as per specifications (P.No-161,I No-21.7)								
	Basic rate	12.00							
	Area Weightage 6%	0.72							
	Total	**12.72**							
		Sqm							
	Ananthapura								
	11th Main rd								
	Cross Rd - 3								
	Nisarga layout		1	70.00	5.00		350.00		
	10th B main rd								
	10th C main rd		1	37.00	5.40		199.80		
	10th E main rd		1	37.00	5.40		199.80		
	Cross rd		1	245.00	5.20		1274.00		
	10th F main rd		1	30.00	5.00		150.00		
	10thG main rd		1	248.00	6.20		1537.60		
	Cross rd-1		1	250.00	5.50		1375.00		
	cross rd-2		1	21.00	4.30		90.30		
			1	25.00	4.60		115.00		
							5291.50	**12.72**	**67,307.88**
18	Providing and laying **bituminous concrete 40mm thick** with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. Clause 507 of MORTH V revision as per IRC SP-53-2015. using 40-60 TPH capacity HMP with mechanical paver grading II (30-45mm) with 5.4 % of modified bituminus binder consisting of 4.97% of VG-30 bitumen (60/70 grade) and 0.43% of plastomeric thermoplastics (waste plastic)(P.No-171,I No-21.78.12)								
	Basic rate	8207.00							
	Area Weightage 6%	492.42							
	Total	**8699.42**							
		Cum							
	Ananthapura								
	11th Main rd								
	Cross Rd - 3								
	Nisarga layout		1	70.00	5.00	0.04	14.00		

Sl No	Description of Item	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
	10th B main rd		1	37.00	5.40	0.04	7.99		
	10th C main rd		1	37.00	5.40	0.04	7.99		
	10th E main rd		1	245.00	5.20	0.04	50.96		
	Cross rd		1	30.00	5.00	0.04	6.00		
	10th F main rd		1	248.00	6.20	0.04	61.50		
	10thG main rd		1	250.00	5.50	0.04	55.00		
	Cross rd-1		1	21.00	4.30	0.04	3.61		
	cross rd-2		1	25.00	4.60	0.04	4.60		
							211.66	8699.42	1841319.24
19	KSRRB M800-13.**Road Marking with Hot Applied Thermoplastic Compound** with Reflectrising Glass Beads on Bituminous Surface/ Concrete Surface: Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35 standards specified. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803(P.No-182,I No-24.15)								
	Basic rate	429.00							
	Area Weightage 6%	25.74							
	Total	**454.74**							
		Sqm							
	Ananthapura								
	11th Main rd								
	Cross Rd - 3		2	70.00	0.10		14.00		
	Nisarga layout								
	10th B main rd		2	37.00	0.10		7.40		
	10th C main rd		2	37.00	0.10		7.40		
	10th E main rd		2	245.00	0.10		49.00		
	Cross rd		2	30.00	0.10		6.00		
	10th F main rd		2	248.00	0.10		49.60		
	10thG main rd		2	250.00	0.10		50.00		
	Cross rd-1		2	21.00	0.10		4.20		
	cross rd-2		2	25.00	0.10		5.00		
							192.60	**454.74**	**87,582.92**
	Total Construction Cost								**21000094.99**
	Towards GST 12%								**2520011.40**
	Tender premiun 5%								**1050004.75**
	DPR and PMC Charges 2%								**429000.00**
	Sub Total								**24999111.14**
	Utility Shifting,Miscellaneous and Rounding off								**888.86**
	GRAND TOTAL								**25000000.00**

Certificate

1. The workspot was inspected and works is found to be necessary.
2. The area comes within the Bruhat Bangalore Mahanagara Palike limits.
3. The rates adopted based on the PWD SR,Bangalore circle for year 2018-2019, issue rates dated 21-10-2019 and Data Rates

Assistant Engineer
ward no 03
BBMP Bangalore

Asst. Executive Engineer
Yelahanka new town sub division
BBMP Bangalore

Executive Engineer
Yelahanka Division
BBMP Bangalore

Bruhat Bangalore Mahanagara Palike
Executive Engineer Yelahanka Division
Name of Work:Improvements to roads and drains at Ananthapura Mahalakshmi layout Limits

Sl No	Description of Item	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
									Est Cost: 250.00 Lak
	Civil Work								
1	KSRRB 300-1. **Earthwork excavation by manual means** for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications (I No-19.1,P No-141), 10km lead = (1.28x2x10)+57.								
	Basic rate	130.00							
	Area Weightage 6%	7.80							
	Loading and Unloding & Lead	82.60							
	Total	**220.40**							
	CC Drain	**Cum**							
	Mahalakshmi layout								
	near Ragavendra medical								
	Sri Krishna Royal Enclave		2	115.00	1.10	1.00	253.00		
	near Venteshwara provision store		2	83.00	1.10	1.00	182.60		
	Thayappa Badavane layout rd		2	50.00	1.10	1.00	110.00		
	SMd water service station		2	132.00	1.10	1.00	290.40		
			1	280.00	1.10	1.00	308.00		
	3rd cross Behind Chandrappa House		2	357.00	1.10	1.00	785.40		
	Ananthapura								
	11th Main rd								
	Cross Rd - 4								
	Cross Rd - 5		2	82.00	1.10	1.00	180.40		
	Cross Rd - 6		2	70.00	1.10	1.00	154.00		
	cross Rd		2	190.00	1.10	1.00	418.00		
	Rain Water Harvesting pits		1	60.00	1.10	1.10	72.60		
	Culverts		20	0.31		1.80	11.16		
			1	12.00	1.50	0.90	16.20		
			4	6.80	1.50	0.90	36.72		
							2818.48	**220.40**	**621192.99**
2	Filling in foundation with granite/trap broken metal 100mm and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with lead up to 50m and lift 1.5m complete as per specifications. Data Rate								
	Data rate	1901.00							
	a) 40mm Jelly	Cum	20	0.31		0.40	**2.48**	**1901**	**4,714.48**
	Data rate	1901.00							
	b) 20mm Jelly	Cum	20	0.31		0.40	**2.48**	**1901**	**4,714.48**
	Data rate	2651.00							
	c) Coarse sand.	Cum	20	0.31		0.30	**1.86**	**2651**	**4,930.86**
	Data rate	2651.00							
	d) Fine Sand	Cum	20	0.31		0.20	**1.24**	**2651**	**3,287.24**
	Data rate	1901.00							
	e) 12.5mm chips	Cum	20	0.31		0.30	**1.86**	**1901**	**3,535.86**

Sl No	Description of Item	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
3	Supplying, laying and jointing HDPE pipes of specified grade and conforming to IS 4984- 995 with latest amendments and conveyingto work site including loading and unloading at both destinations and rolling and lowering into trenches, laying true to line and jointing of pipes and specials, giving hydraulic test as per relevant ISS with all lead and lifts including encasing the pipe alround to a depth of not less than 15 cms. with soft gravel or selected earth available from the excavation, testing and commissioning. The rate is exclusive of required specials and fittings wherever necessary like saddle Tee, stub ends, flanged sets, bends, reducers etc. complete (Contractor will make his own arrangements for procuring water for testing) etc. for : **HDPE Grade PE80-PN6.0, 630 mm dia.** (Perforated Pipe for Rain Water Harvesting Pit) (BWSSB SR 2017-18, Pg No 121 Item No. 1.17 Code No. K010Q)								
	Basic rate	12121.00							
	Deduct 12% GST	1298.68							
	Total	10822.32							
		Rmt							
	0.63m dia HDPE Perforated Pipe. For 1.8 Mtr depth,		20	1.80			36.00		
							36.00	10822.32	389603.52
4	**Providing of Geonets** for Rain Water Harvesting pit on top of the filter media as specified in drawings or as approved by Engineer Incharge. Data Rate								
	Data rate	71.03							
		Sqm	20	0.31			6.20	71.03	440.39
5	KSRB 4-1.2 : Providing and laying in **position plain cement concrete of Mix 1:3:6** with OPC @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM curing complete as per specifications. (P.No-13,I No-4.2,KPWD SR 2018-19)								
	Basic rate	5194.00							
	Area Weightage 6%	311.64							
	Total	5505.64							
	CC Drain								
	Mahalakshmi layout	Cum							
	near Ragavendra medical								
	Sri Krishna Royal Enclave		2	115.00	1.10	0.15	37.95		
	near Venteshwara provision store		2	83.00	1.10	0.15	27.39		
	Thayappa Badavane layout rd		2	50.00	1.10	0.15	16.50		
	SMd water service station		2	132.00	1.10	0.15	43.56		
			1	280.00	1.10	0.15	46.20		
	3rd cross Behind Chandrappa House		2	357.00	1.10	0.15	117.81		
	Ananthapura								
	11th Main rd								
	Cross Rd - 4								
	Cross Rd - 5		2	82.00	1.10	0.15	27.06		
	Cross Rd - 6		2	70.00	1.10	0.15	23.10		
	cross Rd		2	190.00	1.10	0.15	62.70		
	Culverts		1	60.00	1.10	0.15	9.90		
			1	12.00	1.50	0.15	2.70		
			4	6.80	1.50	0.15	6.12		
							420.99	5505.64	2317819.38

Sl No	Description of Item	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
6	Providing and laying **plain/reinforced cement concrete** for side drains using M20 nominal mix concrete with OPC at 300 kgs. with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 .cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500, 1700, 2200. including cost of materials, labour, HOM complete as per specificationsdo- Wall & bottom thickness 15cm (I No-37.59.2,P No-271,KPWD SR 2018-19)								
	Basic rate	6670.00							
	Area Weightage 6%	400.20							
	Total	**7070.20**							
	CC Drain Raft								
	Mahalakshmi layout	**Cum**							
	near Ragavendra medical								
	Sri Krishna Royal Enclave		2	115.00	0.90	0.15	31.05		
	near Venteshwara provision store		2	83.00	0.90	0.15	22.41		
	Thayappa Badavane layout rd		2	50.00	0.90	0.15	13.50		
	SMd water service station		2	132.00	0.90	0.15	35.64		
			1	280.00	0.90	0.15	37.80		
	3rd cross Behind Chandrappa House		2	357.00	0.90	0.15	96.39		
	Ananthapura								
	11th Main rd								
	Cross Rd - 4								
	Cross Rd - 5		2	82.00	0.90	0.15	22.14		
	Cross Rd - 6		2	70.00	0.90	0.15	18.90		
	cross Rd		2	190.00	0.90	0.15	51.30		
	CC Drain Wall		1	60.00	0.90	0.15	8.10		
	Mahalakshmi layout								
	near Ragavendra medical								
	Sri Krishna Royal Enclave		4	115.00	0.15	0.65	44.85		
	near Venteshwara provision store		4	83.00	0.15	0.65	32.37		
	Thayappa Badavane layout rd		4	50.00	0.15	0.65	19.50		
	SMd water service station		4	132.00	0.15	0.65	51.48		
			2	280.00	0.15	0.65	54.60		
	3rd cross Behind Chandrappa House		4	357.00	0.15	0.65	139.23		
	Ananthapura								
	11th Main rd								
	Cross Rd - 4								
	Cross Rd - 5		4	82.00	0.15	0.65	31.98		
	Cross Rd - 6		4	70.00	0.15	0.65	27.30		
	cross Rd		4	190.00	0.15	0.65	74.10		
			2	60.00	0.15	0.65	11.70		
	Culverts						**824.34**		
			1	12.00	1.50	0.20	3.60		
	Culverts Wall		4	6.80	1.20	0.20	6.53		
			2	12.00	0.23	0.60	3.31		
			8	6.80	0.23	0.60	7.51		
							20.95		
							845.29	**7070.20**	**5976349.56**

Sl No	Description of Item	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
7	KSRRB M2200-6. **Providing T.M.T. steel reinforcement** for R.C.C. work including straightening, cutting, bending, hooking, placing in position, lapping and/or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per disign (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specification. MORTH Specification No.1600 & 2200(I No-28.8.2,P No-229)								
	Basic rate	68233.00							
	Area Weightage 6%	4093.98							
	Total	**72326.98**							
	Consider 60kg/Cum for Drain	Tn	1	824.34	60.00		49460.40		
	Consider 90kg/Cum for Drain		1	20.95	90.00		1885.25		
							51345.65		
							51.35	**72326.98**	**3713675.66**
8	Providing and Fixing **pre cast covering Slab 250mm thick** made out of CC 1:2:4 and jelly 20mm Down size with steel reinforcement including form work,curing,including cost of alll materials, labour,hire charges of machinery, loading, unloading, lead and lift,transportation etc ,complete.As per Engineer incharge. (Data Rate)								
	Data rate	**5418.00**							
	Culverts	Sqm	1	12.00	1.50		18.00		
			4	6.80	1.20		32.64		
							50.64	**5418.00**	**274367.52**
9	Providing and Fixing **pre cast covering Slab** made out of CC 1:2:4 with **10cm thick** and Finishing cutting , including form work, cost of alll materials, labour,hire charges of machinery,loading,unloading,lead and lift,transportation etc ,copmplete. (Data Rate)								
	Data rate	2337.00							
	CC Drain Top Covering Slab	Sqm							
	Mahalakshmi layout								
	near Ragavendra medical		2	115.00	0.90		207.00		
	Sri Krishna Royal Enclave		2	83.00	0.90		149.40		
	near Venteshwara provision store		2	50.00	0.90		90.00		
	Thayappa Badavane layout rd		2	132.00	0.90		237.60		
	SMd water service station		1	280.00	0.90		252.00		
	3rd cross Behind Chandrappa House		2	357.00	0.90		642.60		
	Ananthapura								
	11th Main rd								
	Cross Rd - 4		2	82.00	0.90		147.60		
	Cross Rd - 5		2	70.00	0.90		126.00		
	Cross Rd - 6		2	190.00	0.90		342.00		
	cross Rd		1	60.00	0.90		54.00		
							2248.20	**2337.00**	**5254043.40**
10	KSRRB M300-14. **Excavation for roadwork** in all types of soil by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete as per specifications MORTH Specificatio MORTH Specification No.301Loading and unloading with 10km lead= (I No-19.14,P No-143) 10km lead = (1.28x2x10)								
	Basic rate	41.00							
	Area Weightage 6%	2.46							
	Loading and Unloding & Lead	20.80							
	Total	**64.26**							
		Cum							

Sl No	Description of Item	Unit	No	Length	Width	Depth	Quantity	Rate	Amoun
	Ananthapura								
	11th Main rd								
	Cross Rd - 5								
	Cross Rd - 6		1	70.00	5.80	0.30	121.80		
			1	190.00	5.60	0.30	319.20		
							441.00	**64.26**	**28,338.6**
11	KSRRB 300-58. **Compaction of original ground** by mechanical means including filling in depression occuring during rolling including cost of all labour, HOM complete as per specifications. MORTH / Chapter 3 (I No-19.64,P No-147)								
	Basic rate	6.00							
	Area Weightage 6%	0.36							
	Total	**6.36**							
	Ananthapura	**Sqm**							
	11th Main rd								
	Cross Rd - 5								
	Cross Rd - 6		1	70.00	5.80		406.00		
			1	190.00	5.60		1064.00		
							1470.00	**6.36**	**9,349.20**
12	**Construction of granular sub-base Grading-V** as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/ trap/basalt material, mixing in a mechanical mix plant at OMC, Carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications Clause 401 of MORTH V Revision.(I No-20.5,P No-153)								
	Basic rate	1882.00							
	Area Weightage 6%	112.92							
	Total	**1994.92**							
	Ananthapura	**Cum**							
	Bad reaches/edge correction								
	11th Main rd								
	Cross Rd - 4								
	Cross Rd - 5		1	82.00	1.60	0.15	19.68		
	Cross Rd - 6		1	70.00	5.80	0.15	60.90		
			1	190.00	5.60	0.15	159.60		
							240.18	**1994.92**	**479139.89**
13	KSRRB M400-17. Providing, laying, spreading and compacting cushed stone aggregates of granite / trap / basalt to **wet mix macadam** specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications(P.No-155,I No-20.18)								
	Basic rate	1888.00							
	Area Weightage 6%	113.28							
	Total	**2001.28**							
	Ananthapura	**Cum**							
	Bad reaches/edge correction								
	11th Main rd								
	Cross Rd - 4								
	Cross Rd - 5		1	82.00	1.60	0.225	29.52		
	Cross Rd - 6		1	70.00	5.80	0.225	91.35		
			1	190.00	5.60	0.225	239.40		
							360.27	**2001.28**	**721001.15**

Sl No	Description of Item	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
14	KSRRB M500-6. **Providing and applying primer coat** with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications Clause 502 of MORTH V revision(P.No-158,I No-21.6)								
	Basic rate	32.00							
	Area Weightage 6%	1.92							
	Total	**33.92**							
	Ananthapura	**Sqm**							
	Bad reaches/edge correction								
	11th Main rd								
	Cross Rd - 4								
	Cross Rd - 5		1	82.00	1.60		131.20		
	Cross Rd - 6		1	70.00	5.80		406.00		
			1	190.00	5.60		1064.00		
							1601.20	**33.92**	**54,312.70**
15	KSRRB M500-17. Providing and laying **dense graded bituminous macadam** using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications Clause 505 of MORTH V revisionusing 40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75 mm) with 4.5 % VG-30 Bitumen (P.No-160,I No-21.17.6)								
	Basic rate	7008.00							
	Area Weightage 6%	420.48							
	Total	**7428.48**							
	Ananthapura	**Cum**							
	Bad reaches/edge correction								
	11th Main rd								
	Cross Rd - 4								
	Cross Rd - 5		1	82.00	1.60	0.05	6.56		
	Cross Rd - 6		1	70.00	5.80	0.05	20.30		
			1	190.00	5.60	0.05	53.20		
							80.06	**7428.48**	**594724.11**
16	KSRRB 500-7. **Providing and applying tack coat** using 80/100 grade bitumen(VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM complete as per specifications (P.No-161,I No-21.7)								
	Basic rate	12.00							
	Area Weightage 6%	0.72							
	Total	**12.72**							
	Ananthapura	**Sqm**							
	11th Main rd								
	Cross Rd - 4								
	Cross Rd - 5		1	82.00	5.20		426.40		
	Cross Rd - 6		1	70.00	5.80		406.00		
			1	190.00	5.60		1064.00		
							1896.40	**12.72**	**24,122.21**

Sl No	Description of Item	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
17	Providing and laying **bituminous concrete 40mm thick** with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. Clause 507 of MORTH V revision as per IRC SP-53-2015. using 40-60 TPH capacity HMP with mechanical paver grading II (30-45mm) with 5.4 % of modified bituminus binder consisting of 4.97% of VG-30 bitumen (60/70 grade) and 0.43% of plastomeric thermoplastics (waste plastic)(P.No-171,I No-21.78.12)								
	Basic rate	8207.00							
	Area Weightage 6%	492.42							
	Total	**8699.42**							
		Cum							
	Ananthapura								
	11th Main rd								
	Cross Rd - 4		1	82.00	5.20	0.04	17.06		
	Cross Rd - 5		1	70.00	5.80	0.03	12.18		
	Cross Rd - 6		1	190.00	5.60	0.03	31.92		
							61.16	**8699.42**	**532021.73**
18	KSRRB M800-13.**Road Marking with Hot Applied Thermoplastic Compound** with Reflectrising Glass Beads on Bituminous Surface/ Concrete Surface: Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35 standards specified. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803(P.No-182,I No-24.15)								
	Basic rate	429.00							
	Area Weightage 6%	25.74							
	Total	**454.74**							
		Sqm							
	Ananthapura								
	11th Main rd								
	Cross Rd - 4		2	82.00	0.10		16.40		
	Cross Rd - 5		2	70.00	0.10		14.00		
	Cross Rd - 6		2	190.00	0.10		38.00		
							68.40	**454.74**	**31,104.22**
	Total Construction Cost								**21042789.21**
	Towards GST 12%								**2525134.71**
	Tender premiun 5%								**1052139.46**
	DPR and PMC Charges 2%								**379000.00**
	Sub Total								**24999063.38**
	Utility Shifting,Miscellaneous and Rounding off								**936.62**
	GRAND TOTAL								**25000000.00**

Certificate

1. The workspot was inspected and works is found to be necessary.
2. The area comes within the Bruhat Bangalore Mahanagara Palike limits.
3. The rates adopted based on the PWD SR,Bangalore circle for year 2018-2019, issue rates dated 21-10-2019 and Data Rates

Assistant Engineer
ward no 03
BBMP Bangalore

Asst. Executive Engineer
Yelahanka new town sub division
BBMP Bangalore

Executive Engineer
Yelahanka Division
BBMP Bangalore

Bruhat Bangalore Mahanagara Palike
Executive Engineer Yelahanka Division

Name of Work:Improvements to roads and drains at Thirumalanagara layout.

Sl No	Description of Item	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
									Est Cost: 200.00 Lakh
	Civil Work								
1	KSRRB 300-1. **Earthwork excavation by manual means** for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications (I No-19.1,P No-141), 10km lead = (1.28x2x10)+57.								
	Basic rate	130.00							
	Area Weightage 6%	7.80							
	Loading and Unloding & Lead	82.60							
	Total	**220.40**							
	CC Drain	**Cum**							
	Tirumalanagar								
	5th cross rd		2	302.00	1.10	0.90	597.96		
	6th cross rd		2	302.00	1.10	0.90	597.96		
	Ananthapura								
	11th Main rd								
	cross rd-1		2	65.00	1.10	0.90	128.70		
	cross rd-2		2	215.00	1.10	0.90	425.70		
	Rain Water Harvesting pits		15	0.31		1.80	8.37		
	Culverts		6	5.90	1.50	0.90	47.79		
							1806.48	**220.40**	**398148.19**
2	Filling in foundation with granite/trap broken metal 100mm and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with lead up to 50m and lift 1.5m complete as per specifications. Data Rate								
	Data rate	1901.00							
	a) 40mm Jelly	Cum	15	0.31		0.40	**1.86**	**1901**	**3,535.86**
	Data rate	1901.00							
	b) 20mm Jelly	Cum	15	0.31		0.40	**1.86**	**1901**	**3,535.86**
	Data rate	2651.00							
	c) Coarse sand.	Cum	15	0.31		0.30	**1.40**	**2651**	**3,698.15**
	Data rate	2651.00							
	d) Fine Sand	Cum	15	0.31		0.20	**0.93**	**2651**	**2,465.43**
	Data rate	1901.00							
	e) 12.5mm chips	Cum	15	0.31		0.30	**1.40**	**1901**	**2,651.90**
3	Supplying, laying and jointing HDPE pipes of specified grade and conforming to IS 4984- 995 with latest amendments and conveyingto work site including loading and unloading at both destinations and rolling and lowering into trenches, laying true to line and jointing of pipes and specials, giving hydraulic test as per relevant ISS with all lead and lifts including encasing the pipe alround to a depth of not less than 15 cms. with soft gravel or selected earth available from the excavation, testing and commissioning. The rate is exclusive of required specials and fittings wherever necessary like saddle Tee, stub ends, flanged sets, bends, reducers etc. complete (Contractor will make his own arrangements for procuring water for testing) etc. for : **HDPE Grade PE80-PN6.0, 630 mm dia.** (Perforated Pipe for Rain Water Harvesting Pit) (BWSSB SR 2017-18, Pg No 121 Item No. 1.17 Code No. K010Q)								
	Basic rate	12121.00							
	Deduct 12% GST	1298.68							

Sl No	Description of Item	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
	Total	10822.32							
		Rmt							
	0.63m dia HDPE Perforated Pipe. For 1.8 Mtr depth,		15	1.80			27.00		
							27.00	**10822.32**	**292202.64**
4	**Providing of Geonets** for Rain Water Harvesting pit on top of the filter media as specified indrawings or as approved by Engineer Incharge. Data Rate								
	Data rate	71.03							
		Sqm	15	0.31			**4.65**	**71.03**	**330.29**
5	KSRB 4-1.2 : Providing and laying in **position plain cement concrete of Mix 1:3:6** with OPC @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM curing complete as per specifications. (P.No-13,I No-4.2,KPWD SR 2018-19)								
	Basic rate	5194.00							
	Area Weightage 6%	311.64							
	Total	**5505.64**							
	CC Drain	**Cum**							
	Tirumalanagar								
	5th cross rd		2	302.00	1.10	0.15	99.66		
	6th cross rd		2	302.00	1.10	0.15	99.66		
	Ananthapura								
	11th Main rd								
	cross rd-1		2	65.00	1.10	0.15	21.45		
	cross rd-2		2	215.00	1.10	0.15	70.95		
	Culverts		6	5.90	1.50	0.15	7.97		
							299.69	**5505.64**	**1649957.72**
6	Providing and laying **plain/reinforced cement concrete** for side drains using M20 nominal mix concrete with OPC at 300 kgs. with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500, 1700, 2200. including cost of materials, labour, HOM complete as per specificationsdo- Wall & bottom thickness 15cm (I No-37.59.2,P No-271,KPWD SR 2018-19)								
	Basic rate	6670.00							
	Area Weightage 6%	400.20							
	Total	**7070.20**							
	CC Drain Raft	**Cum**							
	Tirumalanagar								
	5th cross rd		2	302.00	0.90	0.15	81.54		
	6th cross rd		2	302.00	0.90	0.15	81.54		
	Ananthapura								
	11th Main rd								
	cross rd-1		2	65.00	0.90	0.15	17.55		
	cross rd-2		2	215.00	0.90	0.15	58.05		
	CC Drain Wall								
	Tirumalanagar								
	5th cross rd		4	302.00	0.15	0.65	117.78		
	6th cross rd		4	302.00	0.15	0.65	117.78		
	Ananthapura								
	11th Main rd								

Sl No	Description of Item	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
	cross rd-1		4	65.00	0.15	0.65	25.35		
	cross rd-2		4	215.00	0.15	0.65	83.85		
							583.44		
	Culverts		6	5.90	1.20	0.20	8.50		
	Culverts Wall		12	5.90	0.23	0.60	9.77		
							18.27		
							601.71	**7070.20**	**4254184.5**
7	KSRRB M2200-6. **Providing T.M.T. steel reinforcement** for R.C.C. work including straightening, cutting, bending, hooking, placing in position, lapping and/or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per disign (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specification. MORTH Specification No.1600 & 2200(I No-28.8.2,P No-229)								
	Basic rate	68233.00							
	Area Weightage 6%	4093.98							
	Total	**72326.98**							
	Consider 60kg/Cum for Drain	**Tn**	1	583.44	60.00		35006.40		
	Consider 90kg/Cum for Drain		1	18.27	90.00		1643.98		
							36650.38		
							36.65	**72326.98**	**2650811.0**
8	Providing and Fixing **pre cast covering Slab 250mm thick** made out of CC 1:2:4 and jelly 20mm Down size with steel reinforcement including form work,curing,including cost of alll materials, labour,hire charges of machinery, loading, unloading, lead and lift,transportation etc ,complete.As per Engineer incharge. (Data Rate)								
	Data rate	**5418.00**							
	Culverts	**Sqm**	6	5.90	1.50		53.10		
							53.10	**5418.00**	**287695.80**
9	Providing and Fixing **pre cast covering Slab** made out of CC 1:2:4 with **10cm thick** and Finishing cutting , including form work, cost of alll materials, labour,hire charges of machinery,loading,unloading,lead and lift,transportation etc ,copmplete. (Data Rate)								
	Data rate	2337.00							
	CC Drain Top Covering Slab	**Sqm**							
	Tirumalanagar								
	5th cross rd		2	302.00	0.90		543.60		
	6th cross rd		2	302.00	0.90		543.60		
	Ananthapura								
	11th Main rd								
	cross rd-1		2	65.00	0.90		117.00		
	cross rd-2		2	215.00	0.90		387.00		
							1591.20	**2337.00**	**3718634.40**
10	KSRB 4-1.6 ; Providing and laying in position **plain cement concrete of Mix 1:2:4** with OPC @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregtes @ 0.53cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM curing complete as per specifications. Specification No. KBS 4.1, 4.2(P.No-13,I No-4.6)								
	Basic rate	5422.00							
	Area Weightage 6%	325.32							
	Total	**5747.32**							
		Cum							
	Tirumalanagar								
	5th cross rd		2	302.00	0.20	0.10	12.08		

Sl No	Description of Item	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
	6th cross rd		2	302.00	0.20	0.10	12.08		
							24.16	**5747.32**	**138855.25**
11	Providing and fixing pre cast solid cement concrete **kerb stones made out of C.C. 1:2:4** with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting, including form work, curing, including cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc., complete.(P.No-27,I No-5.30)								
	Basic rate	408.00							
	Area Weightage 6%	24.48							
	Total	**432.48**							
		Nos							
	Tirumalanagar								
	5th cross rd		2	302.00			604.00		
	6th cross rd		2	302.00			604.00		
							1208.00		
							2684.00	**432.48**	**1160776.32**
12	KSRRB 800-1. **Painting two coats** after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. MORTH Chapter 8 (P.No-180,I No-24.1)								
	Basic rate	80.00							
	Area Weightage 6%	4.80							
	Total	**84.80**							
		Sqm							
	Tirumalanagar								
	5th cross rd		2	302.00	0.40		241.60		
	6th cross rd		2	302.00	0.40		241.60		
							483.20	**84.80**	**40,975.36**
13	KSRRB M300-14. **Excavation for roadwork** in all types of soil by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete as per specifications MORTH Specificatio MORTH Specification No.301Loading and unloading with 10km lead= (I No-19.14,P No-143) 10km lead = (1.28x2x10)								
	Basic rate	41.00							
	Area Weightage 6%	2.46							
	Loading and Unloding & Lead	20.80							
	Total	**64.26**							
		Cum							
	Ananthapura								
	11th Main rd								
	cross rd-2		1	215.00	6.00	0.30	387.00		
							387.00	**64.26**	**24,868.62**
14	KSRRB 300-58. **Compaction of original ground** by mechanical means including filling in depression occuring during rolling including cost of all labour, HOM complete as per specifications. MORTH / Chapter 3 (I No-19.64,P No-147)								
	Basic rate	6.00							
	Area Weightage 6%	0.36							
	Total	**6.36**							
		Sqm							
	Ananthapura								
	11th Main rd								
	cross rd-2		1	215.00	6.00		1290.00		

Sl No	Description of Item	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
							1290.00	6.36	8,204.40
15	Construction of **granular sub-base Grading-V** as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/ trap/basalt material, mixing in a mechanical mix plant at OMC, Carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications Clause 401 of MORTH V Revision.(I No-20.5,P No-153)								
	Basic rate	1882.00							
	Area Weightage 6%	112.92							
	Total	**1994.92**							
		Cum							
	Ananthapura								
	11th Main rd								
	cross rd-1		1	65.00	1.50	0.15	14.63		
	cross rd-2		1	215.00	6.00	0.15	193.50		
							208.13	**1994.92**	**415192.73**
16	KSRRB M400-17. Providing, laying, spreading and compacting cushed stone aggregates of granite / trap / basalt to **wet mix macadam** specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications(P.No-155,I No-20.18)								
	Basic rate	1888.00							
	Area Weightage 6%	113.28							
	Total	**2001.28**							
		Cum							
	Ananthapura								
	11th Main rd								
	cross rd-1								
	cross rd-2		1	65.00	1.50	0.225	21.94		
			1	215.00	6.00	0.225	290.25		
							312.19	**2001.28**	**624774.60**
17	KSRRB M500-6. Providing and applying **primer coat** with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications Clause 502 of MORTH V revision(P.No-158,I No-21.6)								
	Basic rate	32.00							
	Area Weightage 6%	1.92							
	Total	**33.92**							
		Sqm							
	Ananthapura								
	11th Main rd								
	cross rd-1								
	cross rd-2		1	65.00	1.50		97.50		
			1	215.00	6.00		1290.00		
							1387.50	**33.92**	**47,064.00**
18	KSRRB M500-17. Providing and laying **dense graded bituminous macadam** using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications Clause 505 of MORTH V revisionusing 40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75 mm) with 4.5 % VG-30 Bitumen (P.No-160,I No-21.17.6)								

Sl No	Description of Item	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
	Basic rate	7008.00							
	Area Weightage 6%	420.48							
	Total	**7428.48**							
		Cum							
	Ananthapura								
	11th Main rd								
	cross rd-1		1	65.00	1.50	0.05	4.88		
	cross rd-2		1	215.00	6.00	0.05	64.50		
		.					**69.38**	**7428.48**	**515350.80**
19	KSRRB 500-7. Providing and applying **tack coat** using 80/100 grade bitumen(VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM complete as per specifications (P.No-161,I No-21.7)								
	Basic rate	12.00							
	Area Weightage 6%	0.72							
	Total	**12.72**							
		Sqm							
	Ananthapura								
	11th Main rd								
	cross rd-1		1	65.00	5.70		370.50		
	cross rd-2		1	215.00	6.00		1290.00		
							1660.50	**12.72**	**21,121.56**
20	Providing and laying **bituminous concrete 40mm thick** with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. Clause 507 of MORTH V revision as per IRC SP-53-2015. using 40-60 TPH capacity HMP with mechanical paver grading II (30-45mm) with 5.4 % of modified bituminus binder consisting of 4.97% of VG-30 bitumen (60/70 grade) and 0.43% of plastomeric thermoplastics (waste plastic)(P.No-171,I No-21.78.12)								
	Basic rate	8207.00							
	Area Weightage 6%	492.42							
	Total	**8699.42**							
		Cum							
	Ananthapura								
	11th Main rd								
	cross rd-1		1	65.00	5.70	0.04	14.82		
	cross rd-2		1	215.00	6.00	0.03	38.70		
							53.52	**8699.42**	**465592.96**
21	KSRRB M800-13.**Road Marking with Hot Applied Thermoplastic Compound** with Reflectrising Glass Beads on Bituminous Surface/ Concrete Surface: Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35 standards specified. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803(P.No-182,I No-24.15)								
	Basic rate	429.00							
	Area Weightage 6%	25.74							
	Total	**454.74**							
		Sqm							
	Ananthapura								

Sl No	Description of Item	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
	11th Main rd								
	cross rd-1								
			2	65.00	0.10		13.00		
	cross rd-2								
			2	215.00	0.10		43.00		
							56.00	454.74	25,465.44
	Total Construction Cost								16756093.8
	Towards GST 12%								2010731.2
	Tender premiun 5%								837804.6
	DPR and PMC Charges 2%								395000.0
	Sub Total								19999629.8
	Utility Shifting,Miscellaneous and Rounding off								370.1
	GRAND TOTAL								20000000.0

Certificate

1. The workspot was inspected and works is found to be necessary.
2. The area comes within the Bruhat Bangalore Mahanagara Palike limits.
3. The rates adopted based on the PWD SR,Bangalore circle for year 2018-2019, issue rates dated 21-10-2019 and Data Rates

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ward no 03
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